Bean Tunnel

Installation : Functional and Feature Lighting

Project number	:	BRT-TG-XX-ZZ-CA-LI-1302 S3 P02
Customer	:	TonyGee
Processed by	:	AE
Date	:	09.09.2021

Project description:
LIGHTING CLASS BS 5489-1:2013 TABLE 4 [ENCLOSED / DAY]
LIGHTING LEVELS [LUX]: EAVE = 350.0 / EMIN = 150.0

LIGHTING CLASS BS 5489-1:2013 TABLE 4 [ENCLOSED / NIGHT]
LIGHTING LEVELS [LUX]: EAVE = 100.0 / EMIN = 50.0

BEAN TUNNEL [EMERGENCY]
LIGHTING CLASS CIE 88:2004 SECTION 8 [EMERGENCY LIGHTING]
LIGHTING LEVELS [LUX]: EAVE = 10.0 / EMIN = 2.0

Functional lighting dimmed to 90% to achieve daytime levels and dimmed to 30% to achieve nightime levels. Emergency lighitng levels achieved with T01, T03, T05 and T07 OFF and T02, T04 and T06 ON, run from UPS.

Scheme uses 90 qty (45 per side) ColorGraze MX4 Powercore, RGBW, 30 degrees x 60 degrees. Note, qty in report states 360 due to photmetry used.

The following values are based on precise calculations performed on calibrated lamps and luminaires, and their configurations, whereby gradual, unavoidable deviations can occur in practice. All guarantee claims are excluded for the specified data.

This exclusion of liability applies irrespective of the legal grounds for both damages and consequential damages suffered by users and third parties.

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1 Luminaire data

1.1 PHILIPS, BGP237 T25 DSN11 /740 (Tubepoint_gen2_Large)

1.1.1 Data sheet

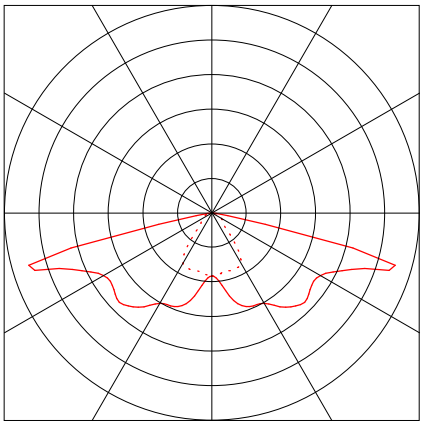
Manufacturer: PHILIPS

Tubepoint_gen2_Large **BGP237 T25 DSN11 /740**

Luminaire data		
Luminaire efficiency	:	81%
Luminaire efficacy	:	133.01 lm/W
Classification	:	A30 ↓100.0% ↑0.0%
CIE Flux Codes	:	42 73 97 100 81
UGR 4H 8H	:	38.8 / 22.2
Power	:	475 W
Luminous flux	:	63180 lm

Equipped with		
Quantity	:	1
Designation	:	LED780-4S/740 L96@100kh
Colour	:	4000K
Luminous flux	:	78000 lm
Colour reproduction	:	70

Dimensions : 486 mm x 1091 mm x 90 mm



1 Luminaire data

1.2 Philips Color Kinetics, ColorGraze MX4 Powercore,... (!423-000002-03)

1.2.1 Data sheet

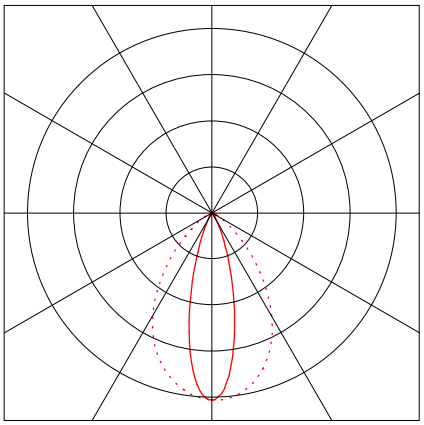
Manufacturer: Philips Color Kinetics

!423-000002-03 **ColorGraze MX4 Powercore, RGBA, 30 degrees x 60 degrees**

Luminaire data		
Luminaire efficiency	:	100%
Luminaire efficacy	:	3.17 lm/W
Classification	:	A70 ↓99.9% ↑0.1%
CIE Flux Codes	:	87 98 100 100 100
UGR 4H 8H	:	<10.0 / 12.5
Power	:	23 W
Luminous flux	:	72.8 lm

Equipped with		
Quantity	:	1
Designation	:	
Colour	:	RGB 0.00 0.00 1.00
Luminous flux	:	72.8 lm

Dimensions : 305 mm x 45 mm x 1 mm



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2 Bean Tunnel

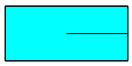
2.1 Description, Bean Tunnel

2.1.1 Luminaire data/Room elements

Product data:

Type No.\Make

1 7



PHILIPS
Order No. : Tubepoint_gen2_Large
Luminaire name : BGP237 T25 DSN11 /740
Equipment : 1 x LED780-4S/740 L96@100kh 475 W / 78000 lm

2 360

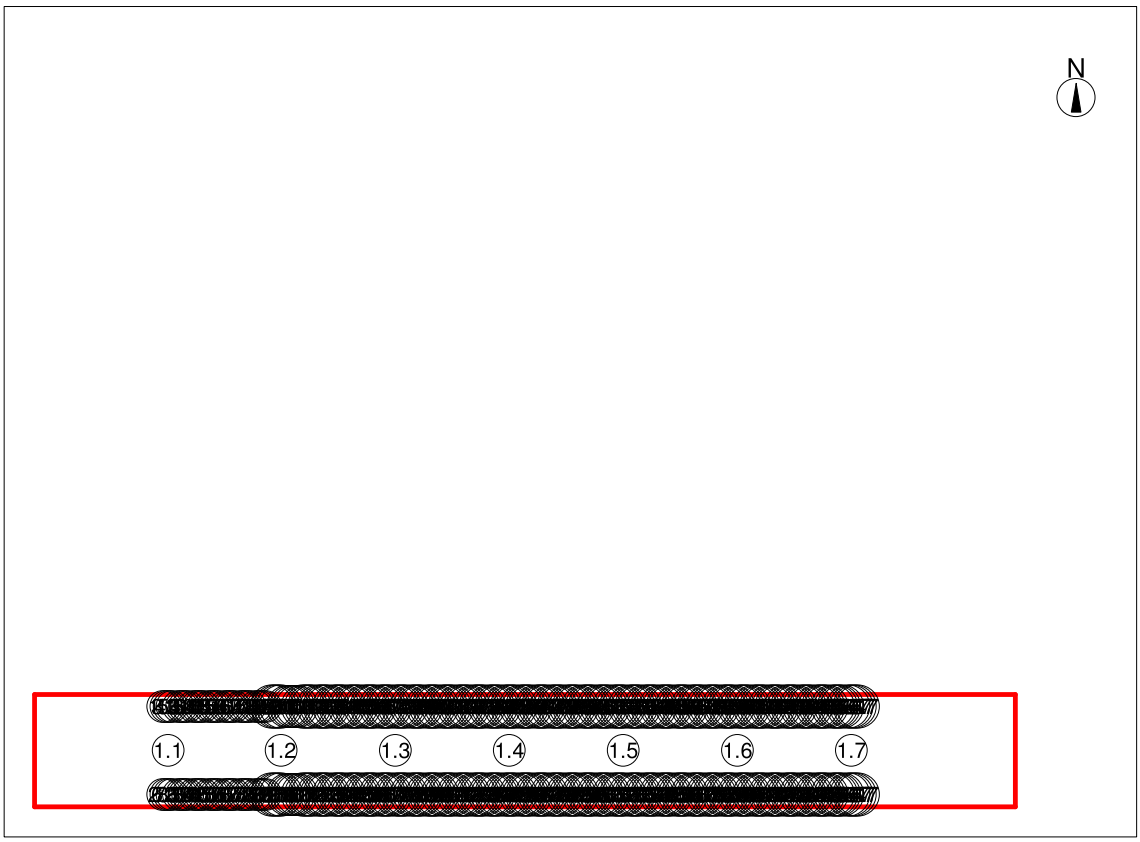
Philips Color Kinetics
Order No. : !423-000002-03
Luminaire name : ColorGraze MX4 Powercore, RGBA, 30 degrees x 60 degrees
Equipment : 1 x 23 W / 72.81 lm RGB 0.00 0.00 1.00

2 Bean Tunnel

2.1 Description, Bean Tunnel

2.1.1 Luminaire data/Room elements

Floor with luminaire and sensor positions:



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2 Bean Tunnel

2.1 Description, Bean Tunnel

2.1.1 Luminaire data/Room elements

	Centre point			Rotation angle			Target coordinates		
No.	X [m]	Y [m]	Z [m]	Z [°]	C0 [°]	C90 [°]	Xa [m]	Ya [m]	Za [m]
PHILIPS BGP237 T25 DSN11 /740 Tubepoint_gen2_Large									
1.1	5.10	4.50	5.95	180.00	0.00	0.00	5.10	4.50	0.00
1.2	16.16	4.50	5.95	180.00	0.00	0.00	16.16	4.50	0.00
1.3	27.32	4.50	5.95	180.00	0.00	0.00	27.32	4.50	0.00
1.4	38.48	4.50	5.95	180.00	0.00	0.00	38.48	4.50	0.00
1.5	49.64	4.50	5.95	180.00	0.00	0.00	49.64	4.50	0.00
1.6	60.80	4.50	5.95	180.00	0.00	0.00	60.80	4.50	0.00
1.7	71.96	4.50	5.95	180.00	0.00	0.00	71.96	4.50	0.00
Philips Color Kinetics ColorGraze MX4 Powercore, RGBA, 30 degrees x 60 degrees !423-000002-03									
1.3	4.56	8.80	3.00	270.00	0.00	-150.00	4.16	6.72	5.74
1.4	6.09	8.80	3.00	270.00	0.00	-150.00	5.69	6.72	5.74
1.5	7.61	8.80	3.00	270.00	0.00	-150.00	7.21	6.72	5.74
1.6	9.14	8.80	3.00	270.00	0.00	-150.00	8.74	6.72	5.74
1.7	10.66	8.80	3.00	270.00	0.00	-150.00	10.26	6.72	5.74
1.8	12.19	8.80	3.00	270.00	0.00	-150.00	11.79	6.72	5.74
1.9	13.71	8.80	3.00	270.00	0.00	-150.00	13.31	6.72	5.74
1.10	15.24	8.80	3.00	270.00	0.00	-150.00	14.84	6.72	5.74
1.11	16.76	8.80	3.00	270.00	0.00	-150.00	16.36	6.72	5.74
1.12	18.29	8.80	3.00	270.00	0.00	-150.00	17.89	6.72	5.74
1.13	19.81	8.80	3.00	270.00	0.00	-150.00	19.41	6.72	5.74
1.14	21.34	8.80	3.00	270.00	0.00	-150.00	20.94	6.72	5.74
1.15	22.86	8.80	3.00	270.00	0.00	-150.00	22.46	6.72	5.74
1.16	24.39	8.80	3.00	270.00	0.00	-150.00	23.99	6.72	5.74
1.17	25.91	8.80	3.00	270.00	0.00	-150.00	25.51	6.72	5.74
1.18	27.44	8.80	3.00	270.00	0.00	-150.00	27.04	6.72	5.74
1.19	28.96	8.80	3.00	270.00	0.00	-150.00	28.56	6.72	5.74
1.20	30.49	8.80	3.00	270.00	0.00	-150.00	30.09	6.72	5.74
1.21	32.01	8.80	3.00	270.00	0.00	-150.00	31.61	6.72	5.74
1.22	33.54	8.80	3.00	270.00	0.00	-150.00	33.14	6.72	5.74
1.23	35.06	8.80	3.00	270.00	0.00	-150.00	34.66	6.72	5.74
1.24	36.59	8.80	3.00	270.00	0.00	-150.00	36.19	6.72	5.74
1.25	38.11	8.80	3.00	270.00	0.00	-150.00	37.71	6.72	5.74
1.26	39.64	8.80	3.00	270.00	0.00	-150.00	39.24	6.72	5.74
1.27	41.16	8.80	3.00	270.00	0.00	-150.00	40.76	6.72	5.74
1.28	42.69	8.80	3.00	270.00	0.00	-150.00	42.29	6.72	5.74
1.29	44.21	8.80	3.00	270.00	0.00	-150.00	43.81	6.72	5.74
1.30	45.74	8.80	3.00	270.00	0.00	-150.00	45.34	6.72	5.74
1.31	47.26	8.80	3.00	270.00	0.00	-150.00	46.86	6.72	5.74
1.32	48.79	8.80	3.00	270.00	0.00	-150.00	48.39	6.72	5.74
1.33	50.31	8.80	3.00	270.00	0.00	-150.00	49.91	6.72	5.74
1.34	51.84	8.80	3.00	270.00	0.00	-150.00	51.44	6.72	5.74
1.35	53.36	8.80	3.00	270.00	0.00	-150.00	52.96	6.72	5.74
1.36	54.89	8.80	3.00	270.00	0.00	-150.00	54.49	6.72	5.74
1.37	56.41	8.80	3.00	270.00	0.00	-150.00	56.01	6.72	5.74
1.38	57.94	8.80	3.00	270.00	0.00	-150.00	57.54	6.72	5.74
1.39	59.46	8.80	3.00	270.00	0.00	-150.00	59.06	6.72	5.74
1.40	60.99	8.80	3.00	270.00	0.00	-150.00	60.59	6.72	5.74
1.41	62.51	8.80	3.00	270.00	0.00	-150.00	62.11	6.72	5.74
1.42	64.04	8.80	3.00	270.00	0.00	-150.00	63.64	6.72	5.74
1.43	65.56	8.80	3.00	270.00	0.00	-150.00	65.16	6.72	5.74
1.44	67.09	8.80	3.00	270.00	0.00	-150.00	66.69	6.72	5.74
1.45	68.61	8.80	3.00	270.00	0.00	-150.00	68.21	6.72	5.74

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2 Bean Tunnel

2.1 Description, Bean Tunnel

2.1.1 Luminaire data/Room elements

1.46	70.14	8.80	3.00	270.00	0.00	-150.00	69.74	6.72	5.74
1.47	71.66	8.80	3.00	270.00	0.00	-150.00	71.26	6.72	5.74
3.3	4.87	8.80	3.00	270.00	0.00	-150.00	4.47	6.72	5.74
3.4	6.40	8.80	3.00	270.00	0.00	-150.00	5.99	6.72	5.74
3.5	7.92	8.80	3.00	270.00	0.00	-150.00	7.52	6.72	5.74
3.6	9.45	8.80	3.00	270.00	0.00	-150.00	9.04	6.72	5.74
3.7	10.97	8.80	3.00	270.00	0.00	-150.00	10.57	6.72	5.74
3.8	12.50	8.80	3.00	270.00	0.00	-150.00	12.09	6.72	5.74
3.9	14.02	8.80	3.00	270.00	0.00	-150.00	13.62	6.72	5.74
3.10	15.55	8.80	3.00	270.00	0.00	-150.00	15.14	6.72	5.74
3.11	17.07	8.80	3.00	270.00	0.00	-150.00	16.67	6.72	5.74
3.12	18.60	8.80	3.00	270.00	0.00	-150.00	18.19	6.72	5.74
3.13	20.12	8.80	3.00	270.00	0.00	-150.00	19.72	6.72	5.74
3.14	21.65	8.80	3.00	270.00	0.00	-150.00	21.24	6.72	5.74
3.15	23.17	8.80	3.00	270.00	0.00	-150.00	22.77	6.72	5.74
3.16	24.70	8.80	3.00	270.00	0.00	-150.00	24.29	6.72	5.74
3.17	26.22	8.80	3.00	270.00	0.00	-150.00	25.82	6.72	5.74
3.18	27.75	8.80	3.00	270.00	0.00	-150.00	27.34	6.72	5.74
3.19	29.27	8.80	3.00	270.00	0.00	-150.00	28.87	6.72	5.74
3.20	30.80	8.80	3.00	270.00	0.00	-150.00	30.39	6.72	5.74
3.21	32.32	8.80	3.00	270.00	0.00	-150.00	31.92	6.72	5.74
3.22	33.85	8.80	3.00	270.00	0.00	-150.00	33.44	6.72	5.74
3.23	35.37	8.80	3.00	270.00	0.00	-150.00	34.97	6.72	5.74
3.24	36.90	8.80	3.00	270.00	0.00	-150.00	36.49	6.72	5.74
3.25	38.42	8.80	3.00	270.00	0.00	-150.00	38.02	6.72	5.74
3.26	39.95	8.80	3.00	270.00	0.00	-150.00	39.54	6.72	5.74
3.27	41.47	8.80	3.00	270.00	0.00	-150.00	41.07	6.72	5.74
3.28	43.00	8.80	3.00	270.00	0.00	-150.00	42.59	6.72	5.74
3.29	44.52	8.80	3.00	270.00	0.00	-150.00	44.12	6.72	5.74
3.30	46.05	8.80	3.00	270.00	0.00	-150.00	45.64	6.72	5.74
3.31	47.57	8.80	3.00	270.00	0.00	-150.00	47.17	6.72	5.74
3.32	49.10	8.80	3.00	270.00	0.00	-150.00	48.69	6.72	5.74
3.33	50.62	8.80	3.00	270.00	0.00	-150.00	50.22	6.72	5.74
3.34	52.15	8.80	3.00	270.00	0.00	-150.00	51.74	6.72	5.74
3.35	53.67	8.80	3.00	270.00	0.00	-150.00	53.27	6.72	5.74
3.36	55.20	8.80	3.00	270.00	0.00	-150.00	54.79	6.72	5.74
3.37	56.72	8.80	3.00	270.00	0.00	-150.00	56.32	6.72	5.74
3.38	58.25	8.80	3.00	270.00	0.00	-150.00	57.84	6.72	5.74
3.39	59.77	8.80	3.00	270.00	0.00	-150.00	59.37	6.72	5.74
3.40	61.30	8.80	3.00	270.00	0.00	-150.00	60.89	6.72	5.74
3.41	62.82	8.80	3.00	270.00	0.00	-150.00	62.42	6.72	5.74
3.42	64.35	8.80	3.00	270.00	0.00	-150.00	63.94	6.72	5.74
3.43	65.87	8.80	3.00	270.00	0.00	-150.00	65.47	6.72	5.74
3.44	67.40	8.80	3.00	270.00	0.00	-150.00	66.99	6.72	5.74
3.45	68.92	8.80	3.00	270.00	0.00	-150.00	68.52	6.72	5.74
3.46	70.45	8.80	3.00	270.00	0.00	-150.00	70.04	6.72	5.74
3.47	71.97	8.80	3.00	270.00	0.00	-150.00	71.57	6.72	5.74
4.3	5.17	8.80	3.00	270.00	0.00	-150.00	4.77	6.72	5.74
4.4	6.70	8.80	3.00	270.00	0.00	-150.00	6.30	6.72	5.74
4.5	8.22	8.80	3.00	270.00	0.00	-150.00	7.82	6.72	5.74
4.6	9.75	8.80	3.00	270.00	0.00	-150.00	9.35	6.72	5.74
4.7	11.27	8.80	3.00	270.00	0.00	-150.00	10.87	6.72	5.74
4.8	12.80	8.80	3.00	270.00	0.00	-150.00	12.40	6.72	5.74
4.9	14.32	8.80	3.00	270.00	0.00	-150.00	13.92	6.72	5.74
4.10	15.85	8.80	3.00	270.00	0.00	-150.00	15.45	6.72	5.74

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2 Bean Tunnel

2.1 Description, Bean Tunnel

2.1.1 Luminaire data/Room elements

4.11	17.37	8.80	3.00	270.00	0.00	-150.00	16.97	6.72	5.74
4.12	18.90	8.80	3.00	270.00	0.00	-150.00	18.50	6.72	5.74
4.13	20.42	8.80	3.00	270.00	0.00	-150.00	20.02	6.72	5.74
4.14	21.95	8.80	3.00	270.00	0.00	-150.00	21.55	6.72	5.74
4.15	23.47	8.80	3.00	270.00	0.00	-150.00	23.07	6.72	5.74
4.16	25.00	8.80	3.00	270.00	0.00	-150.00	24.60	6.72	5.74
4.17	26.52	8.80	3.00	270.00	0.00	-150.00	26.12	6.72	5.74
4.18	28.05	8.80	3.00	270.00	0.00	-150.00	27.65	6.72	5.74
4.19	29.57	8.80	3.00	270.00	0.00	-150.00	29.17	6.72	5.74
4.20	31.10	8.80	3.00	270.00	0.00	-150.00	30.70	6.72	5.74
4.21	32.62	8.80	3.00	270.00	0.00	-150.00	32.22	6.72	5.74
4.22	34.15	8.80	3.00	270.00	0.00	-150.00	33.75	6.72	5.74
4.23	35.67	8.80	3.00	270.00	0.00	-150.00	35.27	6.72	5.74
4.24	37.20	8.80	3.00	270.00	0.00	-150.00	36.80	6.72	5.74
4.25	38.72	8.80	3.00	270.00	0.00	-150.00	38.32	6.72	5.74
4.26	40.25	8.80	3.00	270.00	0.00	-150.00	39.85	6.72	5.74
4.27	41.77	8.80	3.00	270.00	0.00	-150.00	41.37	6.72	5.74
4.28	43.30	8.80	3.00	270.00	0.00	-150.00	42.90	6.72	5.74
4.29	44.82	8.80	3.00	270.00	0.00	-150.00	44.42	6.72	5.74
4.30	46.35	8.80	3.00	270.00	0.00	-150.00	45.95	6.72	5.74
4.31	47.87	8.80	3.00	270.00	0.00	-150.00	47.47	6.72	5.74
4.32	49.40	8.80	3.00	270.00	0.00	-150.00	49.00	6.72	5.74
4.33	50.92	8.80	3.00	270.00	0.00	-150.00	50.52	6.72	5.74
4.34	52.45	8.80	3.00	270.00	0.00	-150.00	52.05	6.72	5.74
4.35	53.97	8.80	3.00	270.00	0.00	-150.00	53.57	6.72	5.74
4.36	55.50	8.80	3.00	270.00	0.00	-150.00	55.10	6.72	5.74
4.37	57.02	8.80	3.00	270.00	0.00	-150.00	56.62	6.72	5.74
4.38	58.55	8.80	3.00	270.00	0.00	-150.00	58.15	6.72	5.74
4.39	60.07	8.80	3.00	270.00	0.00	-150.00	59.67	6.72	5.74
4.40	61.60	8.80	3.00	270.00	0.00	-150.00	61.20	6.72	5.74
4.41	63.12	8.80	3.00	270.00	0.00	-150.00	62.72	6.72	5.74
4.42	64.65	8.80	3.00	270.00	0.00	-150.00	64.25	6.72	5.74
4.43	66.17	8.80	3.00	270.00	0.00	-150.00	65.77	6.72	5.74
4.44	67.70	8.80	3.00	270.00	0.00	-150.00	67.30	6.72	5.74
4.45	69.22	8.80	3.00	270.00	0.00	-150.00	68.82	6.72	5.74
4.46	70.75	8.80	3.00	270.00	0.00	-150.00	70.35	6.72	5.74
4.47	72.27	8.80	3.00	270.00	0.00	-150.00	71.87	6.72	5.74
5.3	5.48	8.80	3.00	270.00	0.00	-150.00	5.08	6.72	5.74
5.4	7.01	8.80	3.00	270.00	0.00	-150.00	6.60	6.72	5.74
5.5	8.53	8.80	3.00	270.00	0.00	-150.00	8.13	6.72	5.74
5.6	10.06	8.80	3.00	270.00	0.00	-150.00	9.65	6.72	5.74
5.7	11.58	8.80	3.00	270.00	0.00	-150.00	11.18	6.72	5.74
5.8	13.11	8.80	3.00	270.00	0.00	-150.00	12.70	6.72	5.74
5.9	14.63	8.80	3.00	270.00	0.00	-150.00	14.23	6.72	5.74
5.10	16.16	8.80	3.00	270.00	0.00	-150.00	15.75	6.72	5.74
5.11	17.68	8.80	3.00	270.00	0.00	-150.00	17.28	6.72	5.74
5.12	19.21	8.80	3.00	270.00	0.00	-150.00	18.80	6.72	5.74
5.13	20.73	8.80	3.00	270.00	0.00	-150.00	20.33	6.72	5.74
5.14	22.26	8.80	3.00	270.00	0.00	-150.00	21.85	6.72	5.74
5.15	23.78	8.80	3.00	270.00	0.00	-150.00	23.38	6.72	5.74
5.16	25.31	8.80	3.00	270.00	0.00	-150.00	24.90	6.72	5.74
5.17	26.83	8.80	3.00	270.00	0.00	-150.00	26.43	6.72	5.74
5.18	28.36	8.80	3.00	270.00	0.00	-150.00	27.95	6.72	5.74
5.19	29.88	8.80	3.00	270.00	0.00	-150.00	29.48	6.72	5.74
5.20	31.41	8.80	3.00	270.00	0.00	-150.00	31.00	6.72	5.74

RELUX®

2 Bean Tunnel

2.1 Description, Bean Tunnel

2.1.1 Luminaire data/Room elements

5.21	32.93	8.80	3.00	270.00	0.00	-150.00	32.53	6.72	5.74
5.22	34.46	8.80	3.00	270.00	0.00	-150.00	34.05	6.72	5.74
5.23	35.98	8.80	3.00	270.00	0.00	-150.00	35.58	6.72	5.74
5.24	37.51	8.80	3.00	270.00	0.00	-150.00	37.10	6.72	5.74
5.25	39.03	8.80	3.00	270.00	0.00	-150.00	38.63	6.72	5.74
5.26	40.56	8.80	3.00	270.00	0.00	-150.00	40.15	6.72	5.74
5.27	42.08	8.80	3.00	270.00	0.00	-150.00	41.68	6.72	5.74
5.28	43.61	8.80	3.00	270.00	0.00	-150.00	43.20	6.72	5.74
5.29	45.13	8.80	3.00	270.00	0.00	-150.00	44.73	6.72	5.74
5.30	46.66	8.80	3.00	270.00	0.00	-150.00	46.25	6.72	5.74
5.31	48.18	8.80	3.00	270.00	0.00	-150.00	47.78	6.72	5.74
5.32	49.71	8.80	3.00	270.00	0.00	-150.00	49.30	6.72	5.74
5.33	51.23	8.80	3.00	270.00	0.00	-150.00	50.83	6.72	5.74
5.34	52.76	8.80	3.00	270.00	0.00	-150.00	52.35	6.72	5.74
5.35	54.28	8.80	3.00	270.00	0.00	-150.00	53.88	6.72	5.74
5.36	55.81	8.80	3.00	270.00	0.00	-150.00	55.40	6.72	5.74
5.37	57.33	8.80	3.00	270.00	0.00	-150.00	56.93	6.72	5.74
5.38	58.86	8.80	3.00	270.00	0.00	-150.00	58.45	6.72	5.74
5.39	60.38	8.80	3.00	270.00	0.00	-150.00	59.98	6.72	5.74
5.40	61.91	8.80	3.00	270.00	0.00	-150.00	61.50	6.72	5.74
5.41	63.43	8.80	3.00	270.00	0.00	-150.00	63.03	6.72	5.74
5.42	64.96	8.80	3.00	270.00	0.00	-150.00	64.55	6.72	5.74
5.43	66.48	8.80	3.00	270.00	0.00	-150.00	66.08	6.72	5.74
5.44	68.01	8.80	3.00	270.00	0.00	-150.00	67.60	6.72	5.74
5.45	69.53	8.80	3.00	270.00	0.00	-150.00	69.13	6.72	5.74
5.46	71.06	8.80	3.00	270.00	0.00	-150.00	70.65	6.72	5.74
5.47	72.58	8.80	3.00	270.00	0.00	-150.00	72.18	6.72	5.74
2.3	4.56	0.20	3.00	270.00	0.00	150.00	4.16	2.42	5.80
2.4	6.09	0.20	3.00	270.00	0.00	150.00	5.69	2.42	5.80
2.5	7.61	0.20	3.00	270.00	0.00	150.00	7.21	2.42	5.80
2.6	9.14	0.20	3.00	270.00	0.00	150.00	8.74	2.42	5.80
2.7	10.66	0.20	3.00	270.00	0.00	150.00	10.26	2.42	5.80
2.8	12.19	0.20	3.00	270.00	0.00	150.00	11.79	2.42	5.80
2.9	13.71	0.20	3.00	270.00	0.00	150.00	13.31	2.42	5.80
2.10	15.24	0.20	3.00	270.00	0.00	150.00	14.84	2.42	5.80
2.11	16.76	0.20	3.00	270.00	0.00	150.00	16.36	2.42	5.80
2.12	18.29	0.20	3.00	270.00	0.00	150.00	17.89	2.42	5.80
2.13	19.81	0.20	3.00	270.00	0.00	150.00	19.41	2.42	5.80
2.14	21.34	0.20	3.00	270.00	0.00	150.00	20.94	2.42	5.80
2.15	22.86	0.20	3.00	270.00	0.00	150.00	22.46	2.42	5.80
2.16	24.39	0.20	3.00	270.00	0.00	150.00	23.99	2.42	5.80
2.17	25.91	0.20	3.00	270.00	0.00	150.00	25.51	2.42	5.80
2.18	27.44	0.20	3.00	270.00	0.00	150.00	27.04	2.42	5.80
2.19	28.96	0.20	3.00	270.00	0.00	150.00	28.56	2.42	5.80
2.20	30.49	0.20	3.00	270.00	0.00	150.00	30.09	2.42	5.80
2.21	32.01	0.20	3.00	270.00	0.00	150.00	31.61	2.42	5.80
2.22	33.54	0.20	3.00	270.00	0.00	150.00	33.14	2.42	5.80
2.23	35.06	0.20	3.00	270.00	0.00	150.00	34.66	2.42	5.80
2.24	36.59	0.20	3.00	270.00	0.00	150.00	36.19	2.42	5.80
2.25	38.11	0.20	3.00	270.00	0.00	150.00	37.71	2.42	5.80
2.26	39.64	0.20	3.00	270.00	0.00	150.00	39.24	2.42	5.80
2.27	41.16	0.20	3.00	270.00	0.00	150.00	40.76	2.42	5.80
2.28	42.69	0.20	3.00	270.00	0.00	150.00	42.29	2.42	5.80
2.29	44.21	0.20	3.00	270.00	0.00	150.00	43.81	2.42	5.80
2.30	45.74	0.20	3.00	270.00	0.00	150.00	45.34	2.42	5.80

RELUX®

2 Bean Tunnel

2.1 Description, Bean Tunnel

2.1.1 Luminaire data/Room elements

2.31	47.26	0.20	3.00	270.00	0.00	150.00	46.86	2.42	5.80
2.32	48.79	0.20	3.00	270.00	0.00	150.00	48.39	2.42	5.80
2.33	50.31	0.20	3.00	270.00	0.00	150.00	49.91	2.42	5.80
2.34	51.84	0.20	3.00	270.00	0.00	150.00	51.44	2.42	5.80
2.35	53.36	0.20	3.00	270.00	0.00	150.00	52.96	2.42	5.80
2.36	54.89	0.20	3.00	270.00	0.00	150.00	54.49	2.42	5.80
2.37	56.41	0.20	3.00	270.00	0.00	150.00	56.01	2.42	5.80
2.38	57.94	0.20	3.00	270.00	0.00	150.00	57.54	2.42	5.80
2.39	59.46	0.20	3.00	270.00	0.00	150.00	59.06	2.42	5.80
2.40	60.99	0.20	3.00	270.00	0.00	150.00	60.59	2.42	5.80
2.41	62.51	0.20	3.00	270.00	0.00	150.00	62.11	2.42	5.80
2.42	64.04	0.20	3.00	270.00	0.00	150.00	63.64	2.42	5.80
2.43	65.56	0.20	3.00	270.00	0.00	150.00	65.16	2.42	5.80
2.44	67.09	0.20	3.00	270.00	0.00	150.00	66.69	2.42	5.80
2.45	68.61	0.20	3.00	270.00	0.00	150.00	68.21	2.42	5.80
2.46	70.14	0.20	3.00	270.00	0.00	150.00	69.74	2.42	5.80
2.47	71.66	0.20	3.00	270.00	0.00	150.00	71.26	2.42	5.80
6.3	4.87	0.20	3.00	270.00	0.00	150.00	4.47	2.42	5.80
6.4	6.40	0.20	3.00	270.00	0.00	150.00	5.99	2.42	5.80
6.5	7.92	0.20	3.00	270.00	0.00	150.00	7.52	2.42	5.80
6.6	9.45	0.20	3.00	270.00	0.00	150.00	9.04	2.42	5.80
6.7	10.97	0.20	3.00	270.00	0.00	150.00	10.57	2.42	5.80
6.8	12.50	0.20	3.00	270.00	0.00	150.00	12.09	2.42	5.80
6.9	14.02	0.20	3.00	270.00	0.00	150.00	13.62	2.42	5.80
6.10	15.55	0.20	3.00	270.00	0.00	150.00	15.14	2.42	5.80
6.11	17.07	0.20	3.00	270.00	0.00	150.00	16.67	2.42	5.80
6.12	18.60	0.20	3.00	270.00	0.00	150.00	18.19	2.42	5.80
6.13	20.12	0.20	3.00	270.00	0.00	150.00	19.72	2.42	5.80
6.14	21.65	0.20	3.00	270.00	0.00	150.00	21.24	2.42	5.80
6.15	23.17	0.20	3.00	270.00	0.00	150.00	22.77	2.42	5.80
6.16	24.70	0.20	3.00	270.00	0.00	150.00	24.29	2.42	5.80
6.17	26.22	0.20	3.00	270.00	0.00	150.00	25.82	2.42	5.80
6.18	27.75	0.20	3.00	270.00	0.00	150.00	27.34	2.42	5.80
6.19	29.27	0.20	3.00	270.00	0.00	150.00	28.87	2.42	5.80
6.20	30.80	0.20	3.00	270.00	0.00	150.00	30.39	2.42	5.80
6.21	32.32	0.20	3.00	270.00	0.00	150.00	31.92	2.42	5.80
6.22	33.85	0.20	3.00	270.00	0.00	150.00	33.44	2.42	5.80
6.23	35.37	0.20	3.00	270.00	0.00	150.00	34.97	2.42	5.80
6.24	36.90	0.20	3.00	270.00	0.00	150.00	36.49	2.42	5.80
6.25	38.42	0.20	3.00	270.00	0.00	150.00	38.02	2.42	5.80
6.26	39.95	0.20	3.00	270.00	0.00	150.00	39.54	2.42	5.80
6.27	41.47	0.20	3.00	270.00	0.00	150.00	41.07	2.42	5.80
6.28	43.00	0.20	3.00	270.00	0.00	150.00	42.59	2.42	5.80
6.29	44.52	0.20	3.00	270.00	0.00	150.00	44.12	2.42	5.80
6.30	46.05	0.20	3.00	270.00	0.00	150.00	45.64	2.42	5.80
6.31	47.57	0.20	3.00	270.00	0.00	150.00	47.17	2.42	5.80
6.32	49.10	0.20	3.00	270.00	0.00	150.00	48.69	2.42	5.80
6.33	50.62	0.20	3.00	270.00	0.00	150.00	50.22	2.42	5.80
6.34	52.15	0.20	3.00	270.00	0.00	150.00	51.74	2.42	5.80
6.35	53.67	0.20	3.00	270.00	0.00	150.00	53.27	2.42	5.80
6.36	55.20	0.20	3.00	270.00	0.00	150.00	54.79	2.42	5.80
6.37	56.72	0.20	3.00	270.00	0.00	150.00	56.32	2.42	5.80
6.38	58.25	0.20	3.00	270.00	0.00	150.00	57.84	2.42	5.80
6.39	59.77	0.20	3.00	270.00	0.00	150.00	59.37	2.42	5.80
6.40	61.30	0.20	3.00	270.00	0.00	150.00	60.89	2.42	5.80

RELUX®

2 Bean Tunnel

2.1 Description, Bean Tunnel

2.1.1 Luminaire data/Room elements

6.41	62.82	0.20	3.00	270.00	0.00	150.00	62.42	2.42	5.80
6.42	64.35	0.20	3.00	270.00	0.00	150.00	63.94	2.42	5.80
6.43	65.87	0.20	3.00	270.00	0.00	150.00	65.47	2.42	5.80
6.44	67.40	0.20	3.00	270.00	0.00	150.00	66.99	2.42	5.80
6.45	68.92	0.20	3.00	270.00	0.00	150.00	68.52	2.42	5.80
6.46	70.45	0.20	3.00	270.00	0.00	150.00	70.04	2.42	5.80
6.47	71.97	0.20	3.00	270.00	0.00	150.00	71.57	2.42	5.80
7.3	5.17	0.20	3.00	270.00	0.00	150.00	4.77	2.42	5.80
7.4	6.70	0.20	3.00	270.00	0.00	150.00	6.30	2.42	5.80
7.5	8.22	0.20	3.00	270.00	0.00	150.00	7.82	2.42	5.80
7.6	9.75	0.20	3.00	270.00	0.00	150.00	9.35	2.42	5.80
7.7	11.27	0.20	3.00	270.00	0.00	150.00	10.87	2.42	5.80
7.8	12.80	0.20	3.00	270.00	0.00	150.00	12.40	2.42	5.80
7.9	14.32	0.20	3.00	270.00	0.00	150.00	13.92	2.42	5.80
7.10	15.85	0.20	3.00	270.00	0.00	150.00	15.45	2.42	5.80
7.11	17.37	0.20	3.00	270.00	0.00	150.00	16.97	2.42	5.80
7.12	18.90	0.20	3.00	270.00	0.00	150.00	18.50	2.42	5.80
7.13	20.42	0.20	3.00	270.00	0.00	150.00	20.02	2.42	5.80
7.14	21.95	0.20	3.00	270.00	0.00	150.00	21.55	2.42	5.80
7.15	23.47	0.20	3.00	270.00	0.00	150.00	23.07	2.42	5.80
7.16	25.00	0.20	3.00	270.00	0.00	150.00	24.60	2.42	5.80
7.17	26.52	0.20	3.00	270.00	0.00	150.00	26.12	2.42	5.80
7.18	28.05	0.20	3.00	270.00	0.00	150.00	27.65	2.42	5.80
7.19	29.57	0.20	3.00	270.00	0.00	150.00	29.17	2.42	5.80
7.20	31.10	0.20	3.00	270.00	0.00	150.00	30.70	2.42	5.80
7.21	32.62	0.20	3.00	270.00	0.00	150.00	32.22	2.42	5.80
7.22	34.15	0.20	3.00	270.00	0.00	150.00	33.75	2.42	5.80
7.23	35.67	0.20	3.00	270.00	0.00	150.00	35.27	2.42	5.80
7.24	37.20	0.20	3.00	270.00	0.00	150.00	36.80	2.42	5.80
7.25	38.72	0.20	3.00	270.00	0.00	150.00	38.32	2.42	5.80
7.26	40.25	0.20	3.00	270.00	0.00	150.00	39.85	2.42	5.80
7.27	41.77	0.20	3.00	270.00	0.00	150.00	41.37	2.42	5.80
7.28	43.30	0.20	3.00	270.00	0.00	150.00	42.90	2.42	5.80
7.29	44.82	0.20	3.00	270.00	0.00	150.00	44.42	2.42	5.80
7.30	46.35	0.20	3.00	270.00	0.00	150.00	45.95	2.42	5.80
7.31	47.87	0.20	3.00	270.00	0.00	150.00	47.47	2.42	5.80
7.32	49.40	0.20	3.00	270.00	0.00	150.00	49.00	2.42	5.80
7.33	50.92	0.20	3.00	270.00	0.00	150.00	50.52	2.42	5.80
7.34	52.45	0.20	3.00	270.00	0.00	150.00	52.05	2.42	5.80
7.35	53.97	0.20	3.00	270.00	0.00	150.00	53.57	2.42	5.80
7.36	55.50	0.20	3.00	270.00	0.00	150.00	55.10	2.42	5.80
7.37	57.02	0.20	3.00	270.00	0.00	150.00	56.62	2.42	5.80
7.38	58.55	0.20	3.00	270.00	0.00	150.00	58.15	2.42	5.80
7.39	60.07	0.20	3.00	270.00	0.00	150.00	59.67	2.42	5.80
7.40	61.60	0.20	3.00	270.00	0.00	150.00	61.20	2.42	5.80
7.41	63.12	0.20	3.00	270.00	0.00	150.00	62.72	2.42	5.80
7.42	64.65	0.20	3.00	270.00	0.00	150.00	64.25	2.42	5.80
7.43	66.17	0.20	3.00	270.00	0.00	150.00	65.77	2.42	5.80
7.44	67.70	0.20	3.00	270.00	0.00	150.00	67.30	2.42	5.80
7.45	69.22	0.20	3.00	270.00	0.00	150.00	68.82	2.42	5.80
7.46	70.75	0.20	3.00	270.00	0.00	150.00	70.35	2.42	5.80
7.47	72.27	0.20	3.00	270.00	0.00	150.00	71.87	2.42	5.80
8.3	5.48	0.20	3.00	270.00	0.00	150.00	5.08	2.42	5.80
8.4	7.01	0.20	3.00	270.00	0.00	150.00	6.60	2.42	5.80
8.5	8.53	0.20	3.00	270.00	0.00	150.00	8.13	2.42	5.80

RELUX®

2 Bean Tunnel

2.1 Description, Bean Tunnel

2.1.1 Luminaire data/Room elements

8.6	10.06	0.20	3.00	270.00	0.00	150.00	9.65	2.42	5.80
8.7	11.58	0.20	3.00	270.00	0.00	150.00	11.18	2.42	5.80
8.8	13.11	0.20	3.00	270.00	0.00	150.00	12.70	2.42	5.80
8.9	14.63	0.20	3.00	270.00	0.00	150.00	14.23	2.42	5.80
8.10	16.16	0.20	3.00	270.00	0.00	150.00	15.75	2.42	5.80
8.11	17.68	0.20	3.00	270.00	0.00	150.00	17.28	2.42	5.80
8.12	19.21	0.20	3.00	270.00	0.00	150.00	18.80	2.42	5.80
8.13	20.73	0.20	3.00	270.00	0.00	150.00	20.33	2.42	5.80
8.14	22.26	0.20	3.00	270.00	0.00	150.00	21.85	2.42	5.80
8.15	23.78	0.20	3.00	270.00	0.00	150.00	23.38	2.42	5.80
8.16	25.31	0.20	3.00	270.00	0.00	150.00	24.90	2.42	5.80
8.17	26.83	0.20	3.00	270.00	0.00	150.00	26.43	2.42	5.80
8.18	28.36	0.20	3.00	270.00	0.00	150.00	27.95	2.42	5.80
8.19	29.88	0.20	3.00	270.00	0.00	150.00	29.48	2.42	5.80
8.20	31.41	0.20	3.00	270.00	0.00	150.00	31.00	2.42	5.80
8.21	32.93	0.20	3.00	270.00	0.00	150.00	32.53	2.42	5.80
8.22	34.46	0.20	3.00	270.00	0.00	150.00	34.05	2.42	5.80
8.23	35.98	0.20	3.00	270.00	0.00	150.00	35.58	2.42	5.80
8.24	37.51	0.20	3.00	270.00	0.00	150.00	37.10	2.42	5.80
8.25	39.03	0.20	3.00	270.00	0.00	150.00	38.63	2.42	5.80
8.26	40.56	0.20	3.00	270.00	0.00	150.00	40.15	2.42	5.80
8.27	42.08	0.20	3.00	270.00	0.00	150.00	41.68	2.42	5.80
8.28	43.61	0.20	3.00	270.00	0.00	150.00	43.20	2.42	5.80
8.29	45.13	0.20	3.00	270.00	0.00	150.00	44.73	2.42	5.80
8.30	46.66	0.20	3.00	270.00	0.00	150.00	46.25	2.42	5.80
8.31	48.18	0.20	3.00	270.00	0.00	150.00	47.78	2.42	5.80
8.32	49.71	0.20	3.00	270.00	0.00	150.00	49.30	2.42	5.80
8.33	51.23	0.20	3.00	270.00	0.00	150.00	50.83	2.42	5.80
8.34	52.76	0.20	3.00	270.00	0.00	150.00	52.35	2.42	5.80
8.35	54.28	0.20	3.00	270.00	0.00	150.00	53.88	2.42	5.80
8.36	55.81	0.20	3.00	270.00	0.00	150.00	55.40	2.42	5.80
8.37	57.33	0.20	3.00	270.00	0.00	150.00	56.93	2.42	5.80
8.38	58.86	0.20	3.00	270.00	0.00	150.00	58.45	2.42	5.80
8.39	60.38	0.20	3.00	270.00	0.00	150.00	59.98	2.42	5.80
8.40	61.91	0.20	3.00	270.00	0.00	150.00	61.50	2.42	5.80
8.41	63.43	0.20	3.00	270.00	0.00	150.00	63.03	2.42	5.80
8.42	64.96	0.20	3.00	270.00	0.00	150.00	64.55	2.42	5.80
8.43	66.48	0.20	3.00	270.00	0.00	150.00	66.08	2.42	5.80
8.44	68.01	0.20	3.00	270.00	0.00	150.00	67.60	2.42	5.80
8.45	69.53	0.20	3.00	270.00	0.00	150.00	69.13	2.42	5.80
8.46	71.06	0.20	3.00	270.00	0.00	150.00	70.65	2.42	5.80
8.47	72.58	0.20	3.00	270.00	0.00	150.00	72.18	2.42	5.80

Dimming values

No.	Phi [lm]	Phi [%]		T [K]	Color Red	Green	Blue	White
PHILIPS BGP237 T25 DSN11 /740 Tubepoint_gen2_Large								
1.1	70200.00	90.00		---	1.0000	1.0000	1.0000	---
1.2	70200.00	90.00		---	1.0000	1.0000	1.0000	---
1.3	70200.00	90.00		---	1.0000	1.0000	1.0000	---

RELUX®

2 Bean Tunnel

2.1 Description, Bean Tunnel

2.1.1 Luminaire data/Room elements

1.4	70200.00	90.00		---	1.0000	1.0000	1.0000	---
1.5	70200.00	90.00		---	1.0000	1.0000	1.0000	---
1.6	70200.00	90.00		---	1.0000	1.0000	1.0000	---
1.7	70200.00	90.00		---	1.0000	1.0000	1.0000	---

Structural elements

Measuring surface

						Rotation angle		
No.	xm[m]	ym[m]	zm[m]	Length	Width	z axis	L axis	Q axis
Adaptation								
M 2	0.10	0.00	0.00	77.00	9.00	0.00	0.00	0.00
UNDERPASS INTERIOR								
M 1	16.16	0.00	0.00	22.33	9.00	0.00	0.00	0.00

Others

						Rotation angle			
No.	xm[m]	ym[m]	zm[m]	Length	Width	z axis	L axis	Q axis	rho[%]
A 1	-2.90	4.50	0.00	77.00	11.47	0.00	0.00	-90.00	---

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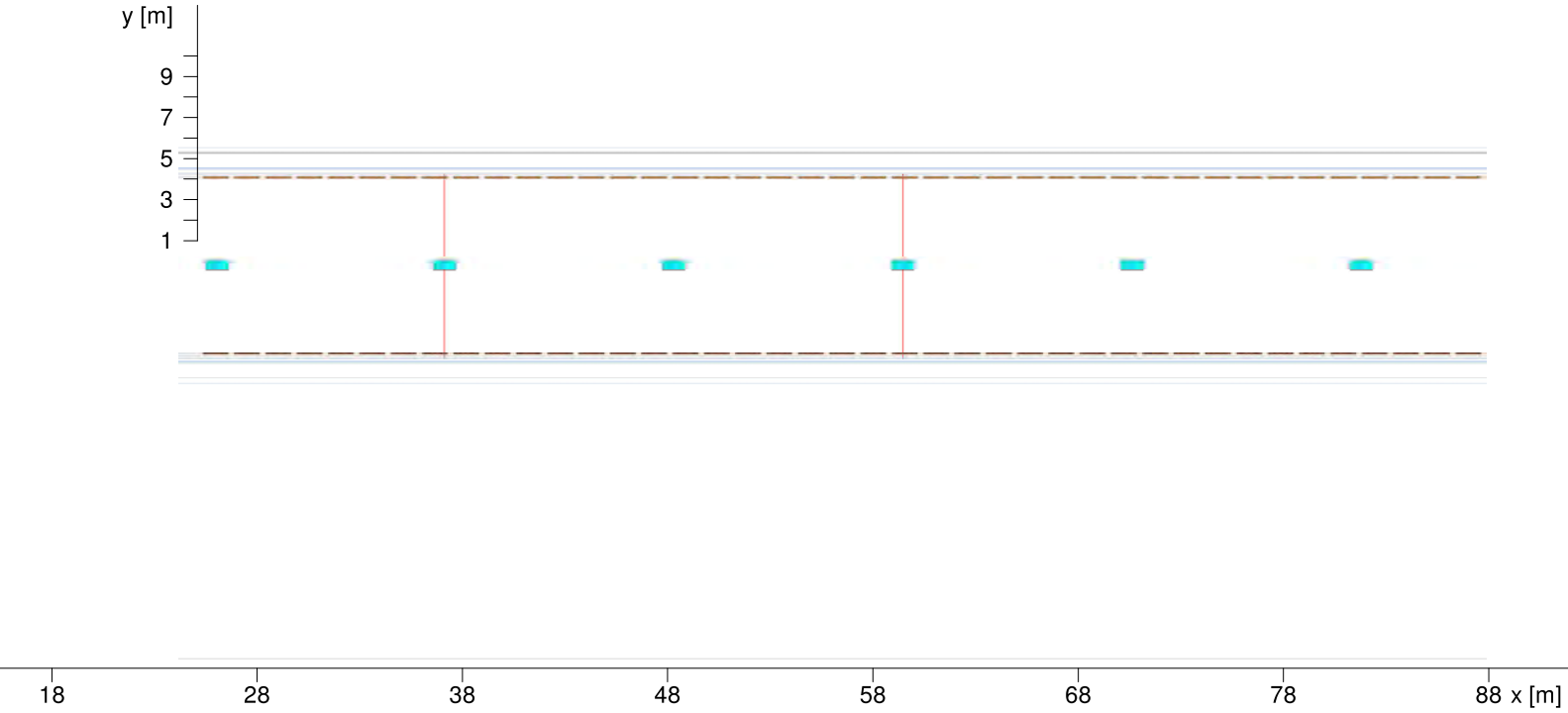
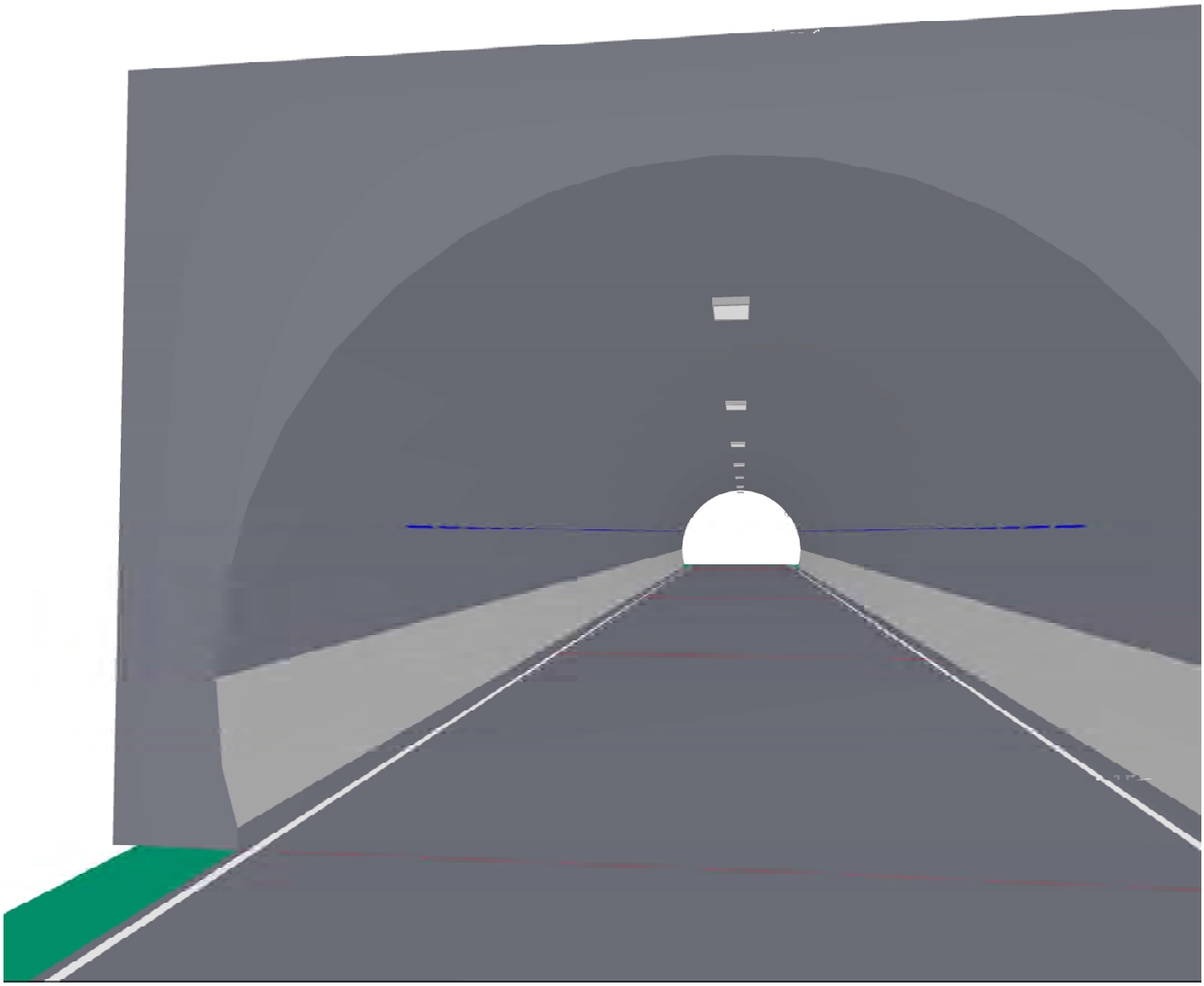
2.1 Description, Bean Tunnel

2.1.2 Floor plan



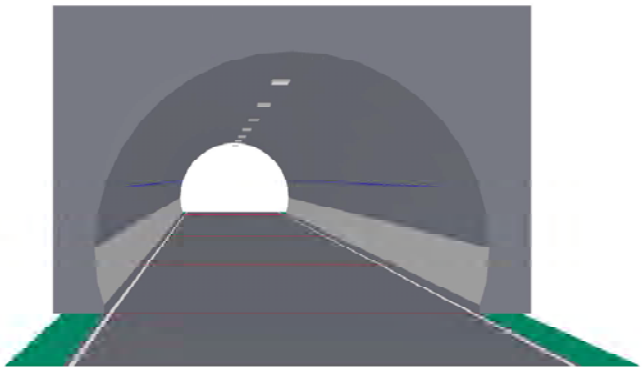
2.1 Description, Bean Tunnel

2.1.3 3D view, View 1



2.1 Description, Bean Tunnel

2.1.4 3D view, View from the left



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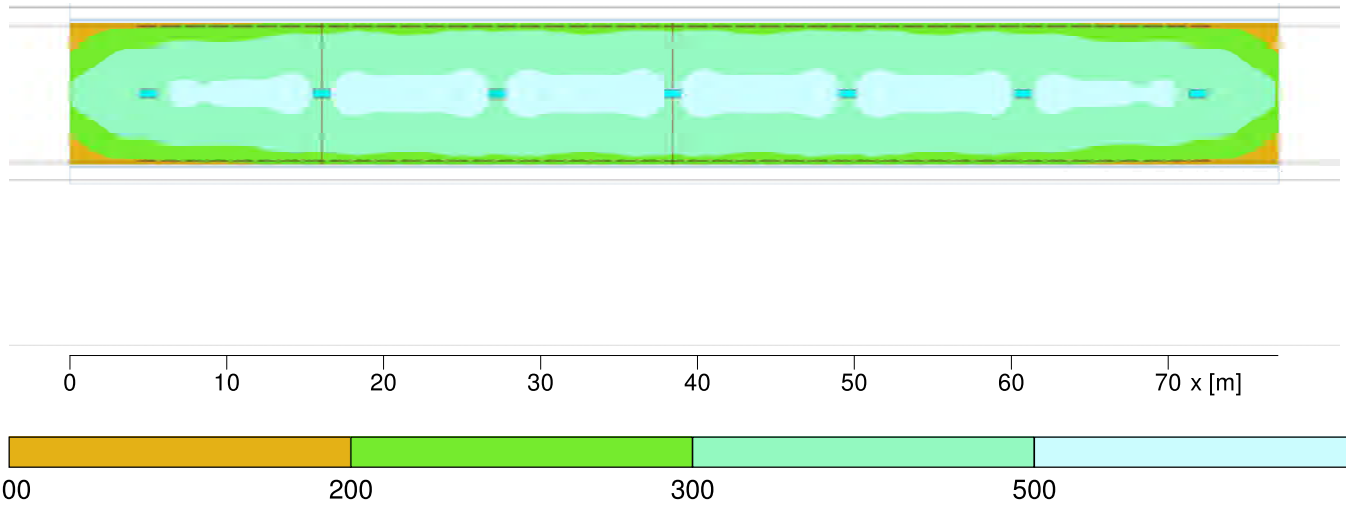
2 Bean Tunnel

2.2 Summary, Bean Tunnel

2.2.1 Result overview, Adaptation



General

Calculation algorithm used	Average indirect fraction with light colours
Height of evaluation surface	0.00 m
Maintenance factor	0.80
Total luminous flux of all lamps	517612.5 lm (dimmed to 90.46%)

(Luminaires have been dimmed. For details see output page "Luminaire data/Room elements".)

Total power	11605 W
Total power per area (1056.00 m²)	10.99 W/m²

Illuminance

Average illuminance	Em	376 lx
Minimum illuminance	Emin	162 lx
Maximum illuminance	Emax	549 lx
Uniformity Uo	Emin/Em	1:2.33 (0.43)
Diversity Ud	Emin/Emax	1:3.4 (0.29)

Type No.\Make

	PHILIPS	
1 7	Order No.	: Tubepoint_gen2_Large
	Luminaire name	: BGP237 T25 DSN11 /740
	Equipment	: 1 x LED780-4S/740 L96@100kh 475 W / 78000 lm

2 Bean Tunnel

2.2 Summary, Bean Tunnel

2.2.1 Result overview, Adaptation

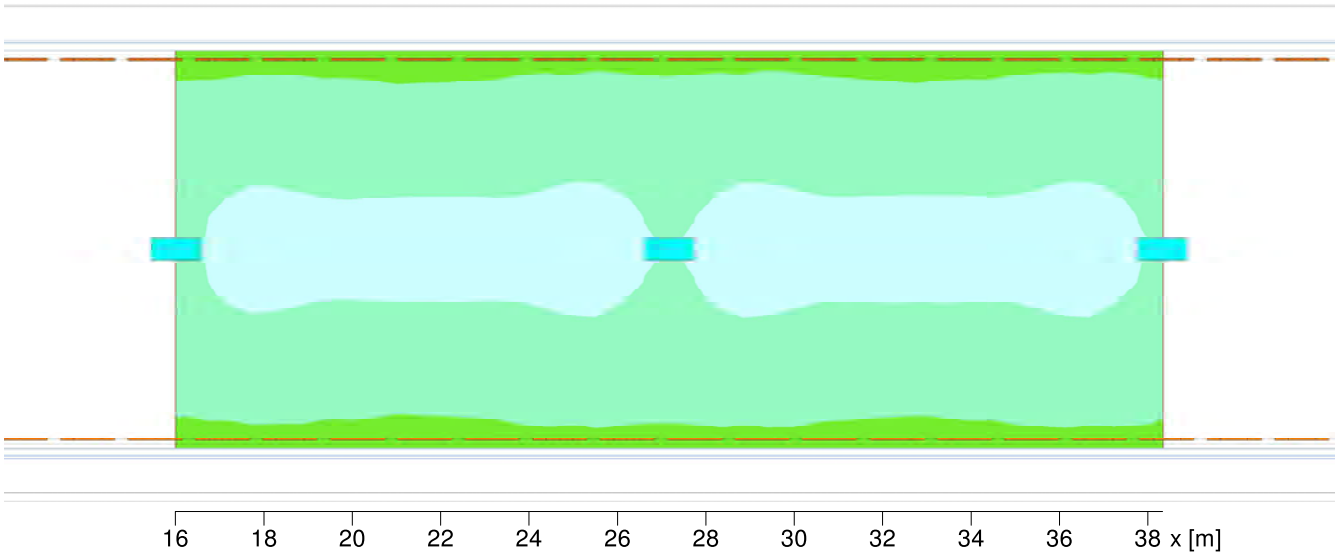
2 360

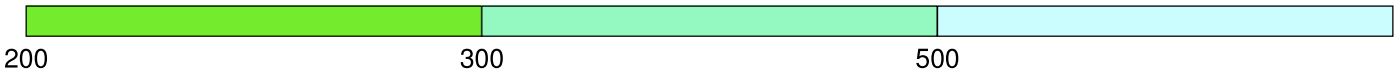
Philips Color Kinetics
Order No. : !423-000002-03
Luminaire name : ColorGraze MX4 Powercore, RGBA, 30 degrees x 60 degrees
Equipment : 1 x 23 W / 72.81 lm RGB 0.00 0.00 1.00

RELUX®

2.2 Summary, Bean Tunnel

2.2.2 Result overview, UNDERPASS INTERIOR





Illuminance [lx]

General

Calculation algorithm used	Average indirect fraction with light colours
Height of evaluation surface	0.00 m
Maintenance factor	0.80
Total luminous flux of all lamps	517612.5 lm (dimmed to 90.46%)

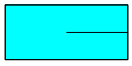
(Luminaires have been dimmed. For details see output page "Luminaire data/Room elements".)

Total power	11605 W
Total power per area (1056.00 m²)	10.99 W/m²

Illuminance

Average illuminance	Em	402 lx
Minimum illuminance	Emin	284 lx
Maximum illuminance	Emax	546 lx
Uniformity Uo	Emin/Em	1:1.41 (0.71)
Diversity Ud	Emin/Emax	1:1.92 (0.52)

Type No.\Make



PHILIPS

Order No.	: Tubepoint_gen2_Large
Luminaire name	: BGP237 T25 DSN11 /740
Equipment	: 1 x LED780-4S/740 L96@100kh 475 W / 78000 lm

2.2 Summary, Bean Tunnel

2.2.2 Result overview, UNDERPASS INTERIOR

2 360

Philips Color Kinetics
Order No. : !423-000002-03
Luminaire name : ColorGraze MX4 Powercore, RGBA, 30 degrees x 60 degrees
Equipment : 1 x 23 W / 72.81 lm RGB 0.00 0.00 1.00

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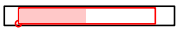
2 Bean Tunnel

2.3 Calculation results, Bean Tunnel

2.3.1 Table, Adaptation (E)

[m]																															
8	166	196	222	230	239	257	261	260	256	262	275	285	294	289	296	305	297	290	286	290	301	308	307	302	308	309	296	290	289	294	307	309	303
7	223	260	308	318	319	356	354	345	352	357	360	380	396	374	390	404	384	380	382	382	386	410	403	387	412	403	384	384	384	384	397	414	391
6	307	358	427	401	382	471	486	470	484	489	486	513	519	446	482	541	511	510	514	513	514	548	502	459	532	539	511	517	517	512	530	544	468
5																																	
4	307	358	427	401	382	471	486	470	484	489	486	513	519	446	482	541	511	510	514	513	514	548	502	459	532	539	511	517	517	512	530	544	468
3																																	
2	223	260	308	318	319	356	354	345	352	357	360	380	396	374	390	404	384	380	382	382	386	410	403	387	412	403	384	384	384	384	397	414	391
1	166	196	222	230	239	257	261	260	256	262	275	285	294	289	296	304	296	290	286	290	301	308	307	302	308	308	296	290	289	294	307	309	303
					10								20												30								

Illuminance [lx]



Part1

Height reference plane		: 0.00 m
Average illuminance	Em	: 376 lx
Minimum illuminance	Emin	: 162 lx
Maximum illuminance	Emax	: 549 lx
Uniformity Uo	Emin/Em	: 1 : 2.33 (0.43)
Diversity Ud	Emin/Emax	: 1 : 3.40 (0.29)

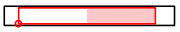
2 Bean Tunnel

2.3 Calculation results, Bean Tunnel

2.3.1 Table, Adaptation (E)

305	309	305	292	288	292	298	310	306	302	309	306	299	288	286	291	298	304	293	288	293	282	270	259	254	259	260	254	237	229	219	192	**(162)**
396	413	392	383	384	383	386	407	407	386	409	405	384	382	381	379	388	405	382	377	395	372	357	353	348	343	355	351	315	319	302	255	218
482	**[549]**	522	513	517	516	512	546	514	457	521	543	510	514	513	508	518	538	463	456	525	501	483	483	478	465	487	458	376	409	420	350	301
482	**[549]**	522	513	517	516	512	546	514	457	521	543	510	514	513	508	518	538	463	456	525	501	483	483	478	465	487	458	376	409	420	350	301
396	413	392	383	384	383	386	407	407	386	409	405	384	382	381	379	387	405	382	377	395	372	357	353	348	343	355	351	315	319	302	255	218
305	309	305	292	288	292	298	310	306	302	309	306	299	288	286	291	298	304	293	288	293	282	270	259	254	259	260	254	237	229	219	192	**(162)**

40 50 60 70 [m]



Part2

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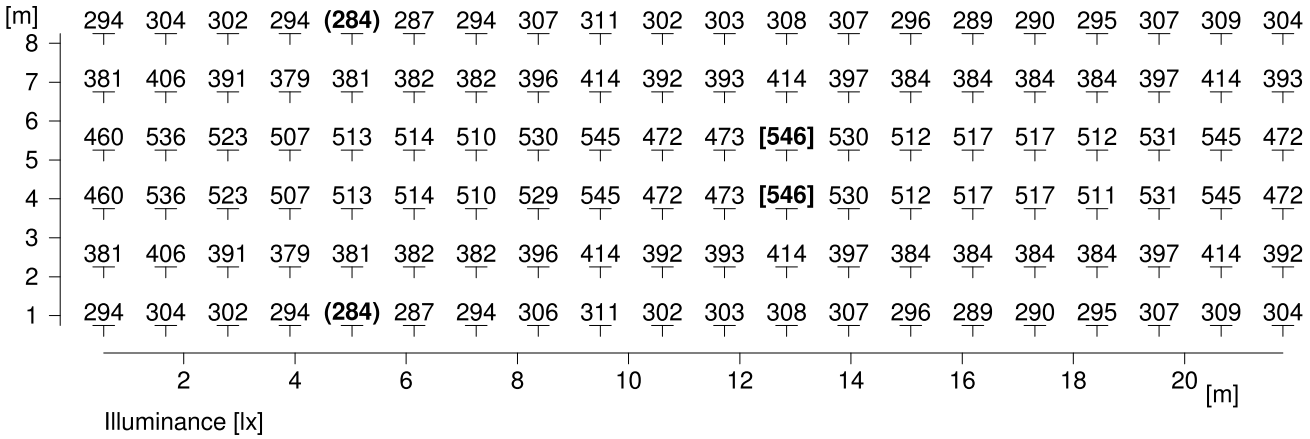
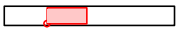
2.3 Calculation results, Bean Tunnel

2.3.2 Table, UNDERPASS INTERIOR (E)





Height reference plane		: 0.00 m
Average illuminance	Em	: 402 lx
Minimum illuminance	Emin	: 284 lx
Maximum illuminance	Emax	: 546 lx
Uniformity Uo	Emin/Em	: 1 : 1.41 (0.71)
Diversity Ud	Emin/Emax	: 1 : 1.92 (0.52)

2.3 Calculation results, Bean Tunnel

2.3.3 3D luminance, View 1